

What is claimed is:

1. A photoimageable composition comprising:
  - i) a photoactive component;
  - 5 ii) a component that comprises one or more Si atoms; and
  - iii) a component that comprises one or more sulfonamide groups.
2. The photoimageable composition of claim 1 wherein a single component comprises both one or more Si atoms and one or more sulfonamide groups.
- 10 3. The photoimageable composition of claim 1 wherein the photoimageable composition comprises a polymer that comprises both one or more Si atoms and one or more sulfonamide groups.
- 15 4. The photoimageable composition of claim 3 wherein the polymer further comprises photoacid-labile groups.
5. The photoimageable composition of claim 4 wherein the photoacid-labile groups are ester groups or acetal groups.
- 20 6. The photoimageable composition of claim 3 wherein the polymer comprises aromatic groups.
7. The photoimageable composition of claim 3 wherein the polymer comprises phenyl groups.
- 25 8. The photoimageable composition of claim 3 wherein the polymer is substantially free of aromatic groups.
- 30 9. The photoimageable composition of claim 1 wherein the photoimageable composition comprises a polymer that contains one or more Si atoms and a distinct component that comprises one or more sulfonamide groups.

10. The photoimageable composition of claim 9 wherein the photoimageable composition comprises a polymer that contains one or more Si atoms and a distinct polymer that comprises one or more sulfonamide groups.
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11. The photoimageable composition of claim 1 wherein the composition comprises a polymer that has one or more Si atoms and one or more aqueous base-solubilizing groups.
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12. The photoimageable composition of claim 11 wherein aqueous solubilizing groups are fluorinated alcohols, carboxylic acid and/or thiols.
13. The photoimageable composition of claim 1 wherein the composition comprises a polymer that comprises at least three distinct repeat units.
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14. The photoimageable composition of claim 1 wherein the composition is a chemically-amplified positive acting photoresist.
15. The photoimageable composition of claim 1 further comprising a
- 20 crosslinker component.
16. The photoimageable composition of claim 1 wherein the composition is a negative-acting photoresist.
17. A coated substrate comprising:
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- a) a polymer composition coating layer applied over a substrate surface;
- b) a coating layer of a photoimageable composition of claim 1 disposed above the polymer composition coating layer.
18. A coated substrate of claim 17 wherein the polymer composition
- 30 comprises a phenolic resin.

19. A method for forming a electronic device, comprising:

(a) applying on a substrate a coating layer of a polymer composition;

(b) above the polymer composition coating layer, applying a photoimageable composition of claim 1;

5 (c) exposing the photoimageable composition coating layer to activating radiation and developing the exposed photoimageable layer.

20. An article of manufacture comprising a substrate comprising a coating layer of a photoimageable composition of claim 1.

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